AUTHOR INDEX

Ansart, A., 455

Batallan, F., 49, 147, 339
Béguin, F., 55, 133, 155, 271, 427, 493
Behrens, P., 81, 95
Bendriss-Rerhrhaye, A., 89
Beuthien, H., 95
Bleish, I., 351
Boehm, H. P., 395, 407
Brusilovsky, D., 377

Chan, C. T., 327
Chomilier, J., 175, 179, 205
Chouteau, G., 243, 249
Chow, P. C., 107
Conard, J., 55, 277

Davidov, D., xiii, 113, 291 351, 377
Dianoux, A. J., 55
Doll, G. L., 481
Dresselhaus, G., 231
Dresselhaus, M. S., xv, 401 481

Ehrhardt, C., 415, 441
Eickhoff, H.-P., 95
Eisberg, R., 183
Engle, G. B., 481
Enoki, T., 461
Erre, R., 493
Estrade-Szwarckopf, H., 55, 191

Facchini, L., 271
Fischer, J. E., 101, 121, 165
Flandrois, S., 435, 455
Frétigny, C., 165
Fronko, R. M., 297
Fujimoto, K., 449
Fukuda, S., 475
Furdin, G., 365, 387
Fuzellier, H., 277, 339

Geiser, V., 211, 371
George, B., 285
Goldmann, M., 55, 133, 155
Gonzalez, B., 55, 133, 155
Goto, Y., 461
Grannec, J., 435
Grupp, A., 291
Guérard, D., 175, 179, 205, 285, 421
Güntherodt, H.-J., 211, 371

Hague, C. F., 211
Hamwi, A., 127
Hauw, C., 435
Heitjans, P., 257
Helle, W., 395
Hérold, A., 27, 75, 365, 387, 421
Ho, K. M., 327
Hoffer, P., 291
Huang, Y. Y., 223
Hummel, H.-J., 441
Hun, B., 435

Iijima, T., 449
Imaeda, K., 461
Inokuchi, H., 461

Jost, F., 333

Kaindl, G., 139
Kamimura, H., 171, 217, 265
Kamitakahara, W. A., 327
Kass, H., 291
Kim, H. J., 121
Kirczenow, G., 1
Kjems, J. K., 113, 351
Klatt, M., 387
Kobayashi, K., 265
Krone, W., 139

Lagrange, P., 89, 421
Laguës, M., 165
Laroche, C., 155
Lauginie, P., 311
Lauter, H., 147, 339
Lecomte, N., 165
Legrand, A. P., 271
Lelaurain, M., 75, 365, 387
Loupias, G., 175, 179, 205, 285
Lüders, K., 371
Lusnikov, A., 401

McNiff, E. J., Jr., 231
McRae, E., 365
Magerl, A., 49
Marchand, D., 165
Marcus, B., 13
Marêché, J. F., 365
Mariot, J.-M., 211
Meschi, C., 455
Messaoudi, A., 493
Metoki, N., 7
Métrot, A., 19
Metz, W., 81, 95
Mitani, H., 69
Mizutani, Y., 461

Nadi, N., 75
Nicholls, J. T., 231, 481
Niemann, W., 95
Niizeki, K., 69

Oelhafen, P., 211
Ohana, I., 321, 377
Okabe, K., 61

Pannetier, J., 133
Pepy, G., 147

Quinton, M. F., 155, 271

Rabii, S., 175, 205
Rabinovitz, M., 487
Resing, H. A., 297
Rettori, C., 43, 305
Rolla, S., 43, 305
Rosenman, I., 49, 147, 339
Roth, S., 333
Rousseau, B., 191
Rousseaux, F., 75, 89, 421
Ruisinger, B., 395

© Elsevier Sequoia/Printed in The Netherlands

Saito, R., 217, 265
Sakya, R. M., 481
Sato, M., 449
Scharff, P., 415
Schlögl, R., 139, 407
Schweizer, J., 249
Selig, H., xiii, 113, 351, 377
Selig, W. S., 503
Setton, R., 467, 511, 519
Shapira, Y., 231
Shima, N., 217
Simon, Ch., 49, 147, 339
Solin, S. A., 223, 297
Soubeyroux, J. L., 13
Speck, J. S., 481
Stang, I., 371
Stumpp, E., 415, 441
Suda, K., 7
Suematsu, H., 7
Sugihara, K., 359
Sugiura, T., 449
Sundqvist, B., 345
Suzuki, M., 237

Takahashi, A., 475
Tamarkin, D., 487
Tanuma, S.-I., 61, 199
Tarbes, J., 179, 205, 285
Tasset, F., 249
Tatar, R., 205
Tihli, M., 19
Touhara, H., 461
Touzain, Ph., 13, 127
Tressaud, A., 435
Tsang, T., 297
Tsukada, M., 265
Tsukamoto, J., 475
Vaknin, D., 101, 113, 351, 377
Vangélisti, R., 277
Vast, P., 427

Walmsley, L. C., 43, 305
Watanabe, N., 461
Wiech, G., 183
Wiesler, D. G., 237
Wortmann, G., 139

Yacoby, Y., 321, 333
Yazami, R., 243, 249
Yeshurun, Y., 113
Yosida, Y., 199

Zabel, H., 37, 107, 237

SUBJECT INDEX

Acceptor type GIC
  dielectric constants of, new method to determine, 333
Alkali alloys
  composition modulation of binary, in graphite, 107
Alkali–ammonia
  ternary GICs, two dimensional metal–insulator transitions in, 223
Alkali GICs
  C_8M, interlayer bands in first stage, 171
  UPS and XPS studies of, 191
Alkali metal
  graphite–, –Bi ternaries, X-ray study of in-plane orderings, 89
Alkali metal GICs
  angle resolved photoemission study of first and second stages, 165
  dynamics of stage boundaries in, observed by color photography, 61
  fractal energy surface and successive lock-in transitions of intercalant monolayer system in, 69
Alkali–THF–graphite
  ^{13}C NMR study of ternary intercalated compounds; heavy, 271
Alkanesulfonic acids
  graphite salts with perfluoroalkanesulfonic acids and, 395
Aluminium
  kinetics of ordering in graphite $SbCl_5$ and $AlCl_3$ studied by ESR, 43
Ammonia
  potential energy of $KC_{24}(NH_3)_4$ on ionic model; order parameter of ammonia molecule, 297
Angle-resolved photoemission study
  of first and second stages alkali metal graphite intercalation compounds, 165
Angle-resolved X-ray emission spectroscopy
  electronic structure of K and metal halide GICs studied by, 183
Anisotropy
  of electronic density in KC_8, investigations of, by synchrotron X-ray Compton scattering, 179
Antimony
  $SbCl_5$ GIC
    c-axis resistance of stage 2, under pressure, 345
    ^{13}C NMR study of relation between bonding and commensurability in, NO_3H and, 277
    de Haas–van Alphen effect in, 199
    kinetics of ordering in, and $AlCl_3$ studied by ESR, 43
    spin resonance lineshape and *c*-axis resistivity in, 305
Arsenic
  AsF_5 intercalated graphite
    phase changes and conductivity anisotropy of, 365
    structure and phonons in stage 2, comparison of high-T liquid and low-T incommensurate solid phases, 101
c-Axis conduction
  in GICs, 359
c-Axis resistance
  of stage 2 $SbCl_5$ intercalated graphite under pressure, 345
c-Axis resistivity
  in $SbCl_5$ GICs, spin resonance lineshape and, 305

Benzene
  enthalpy of intercalation of KC_{24} with THF or benzene and thermal analysis of $K(THF)_{2.5}C_{24}$ and $K(Bz)_{2.5}C_{24}$, 427
Bi-intercalation compounds
  graphite, electrochemical preparation and characterization of novel, 415
Bismuth
  graphite–alkali metal–Bi ternaries, X-ray study of in-plane orderings, 89
Bond distances
  C–C, in graphite and GICs, phonon frequencies and, 327
Bonding
  ^{13}C NMR study of relation between, and commensurability in NO_3H and $SbCl_5$ GIC, 277

© Elsevier Sequoia/Printed in The Netherlands

Boron
graphite compounds with BF_3/F_2; conductivity and its relation to charge transfer, 377
Bromine
Br intercalated in graphite, neutron diffraction on, 147
Bromide
Au(III), graphite, thermogravimetric study of, 441

^{13}C NMR study
of relation between bonding and commensurability in NO_3H and $SbCl_2$ GIC, 277
of ternary intercalated compounds, heavy alkali–THF–graphite, 271
Cadmium
GICs of dichlorides of II_B elements (Zn, Cd, Hg), structural investigations of, 95
Caesium
CsC_8, direct evidence for occupied Cs 6s states in, 211
intercalation and partial deintercalation of tetrahydrofuran in CsC_{24}; neutron powder diffraction study, 133
melting of intercalated layers in $Cs_x(THF)_yC_{24}$, 155
mobility of tetrahydrofuran in $Cs(THF)_xC_{24}$ and $Li(THF)_{1.4}C_6$; neutron and NMR study, 55
Carbon
C–C bond distances in graphite and GICs, phonon frequencies and, 327
C/C composites, electronic and structural studies, 481
Charge transfer
graphite compounds with BF_3/F_2; conductivity and its relation to, 377
Cobalt
$CoCl_2$ GICs
high field magnetization of, 231
high field memory effect in; neutron investigation, 249
finely divided supported metals Ni, Co and Fe prepared through GICs; study by XPS, 493
GIC, enhancement of ferromagnetism in new reduced, 243
Color photography
dynamics of stage boundaries in alkali-metal GICs observed by, 61
Commensurability
^{13}C NMR study of relation between bonding and, in NO_3H and $SbCl_5$ GIC, 277
Composition modulation
of binary alkali alloys in graphite, 107
Compton scattering
Li intercalated graphite; experimental and theoretical investigations of electronic density *versus* stage by, 175
synchrotron X-ray, investigations of anisotropy of electronic density in KC_8 by, 179
Conductivity
graphite compounds with BF_3/F_2; and its relation to charge transfer, 377
Conductivity anisotropy
of AsF_5 intercalated graphite, phase changes and, 365
Critical behavior(s)
of diffusion constant in melting of layer of nitric acid intercalated in graphite, 49
of intercalant melting, kinetic processes of stage transitions and, 7
Cyanoacetylene
structure of HNO_3 intercalated graphite fiber prepared from, 475

de Haas–van Alphen effect
in $SbCl_5$ GIC, 199
Deintercalation
and second intercalation of K into highly oriented pyrolytic graphite, 127
of tetrahydrofuran in CsC_{24}, intercalation and partial; neutron powder diffraction study, 133
Dielectric constants
of acceptor type GIC, new method to determine, 333
Diffraction patterns
of GICs, some general aspects of hk0, 81
Diffusion constant
critical behavior of, in melting of layer of nitric acid intercalated in graphite, 49
Dynamics
of molecules in graphite, 37
of stage boundaries in alkali-metal GICs observed by color photography, 61

Elastic interactions
neutron scattering studies of dilute stage 1 Li GICs; phase transitions and phase diagram, 121
Electrochemical intercalation
of K solvated by tetrahydrofuran into graphite, kinetic study of, 13
Electrochemical preparation
and characterization of novel graphite bi-intercalation compounds, 415
Electron donor
ternary graphite–, compounds, development of, during past ten years, synthesis and structure, 421
Electronic density
in KC_8, investigations of anisotropy of, by synchrotron X-ray Compton scattering, 179
Li intercalated graphite; experimental and theoretical investigations of, *versus* stage by Compton scattering, 175
Electronic states
in K GIC by XANEPS measurements, stage dependence of, 205
Electronic structure
of K and metal halide GICs studied by angle-resolved X-ray emission spectroscropy, 183
Electronic studies
of C/C composites, and structural, 481
Enthalpy
of intercalation of KC_{24} with THF or benzene and thermal analysis of $K(THF)_{2.5}C_{24}$ and $K(Bz)_{2.5}C_{24}$, 427
ESR studies
of GICs, pulsed, 291
kinetics of ordering in graphite $SbCl_5$ and $AlCl_3$, 43

Ferromagnet
magnetic ordering in quasi-two-dimensional planar, 237
Ferromagnetism
in new reduced Co GIC, enhancement of, 243
Fluoride(s)
AsF_5 intercalated graphite
phase changes and conductivity anisotropy of, 365
structure and phonons in stage 2, comparison of high-T liquid and low-T incommensurate solid phases, 101
graphite compounds with BF_3/F_2; conductivity and its relation to charge transfer, 377
HOPG/IrF_6, resistivity studies and phase transitions in, 351
incommensurate structures of OsF_6 and MoF_6 graphite intercalates studied by neutron scattering, 113
transition metal, GICs with, 435
Fluorine
HOPG GICs, 461
Fractal energy surface
and successive lock-in transitions of intercalant monolayer system in alkali metal GICs, 69

Gallium
order–disorder transition and 3D–2D crossover in stage 1 $GaCl_3$ intercalated graphite; X-ray study, 75
Gold
thermogravimetric study of Au(III) bromide graphite, 441
Graphite
–alkali metal–Bi ternaries, X-ray study of in-plane ordering in new, 89
AsF_5 intercalated
phase changes and conductivity anisotropy of, 365
structure and phonons in stage 2, comparison of high-T liquid and low-T incommensurate solid phases, 101
Au(III) bromide, thermogravimetric study of, 441
bi-intercalation compounds, electrochemical preparation and characterization of novel, 415
Br intercalated in, neutron diffraction on, 147
composition modulation of binary alkali alloys in, 107
compounds with BF_3/F_2; conductivity and its relation to charge transfer, 377
dynamics of molecules in, 37
–electron donor compounds, development of ternary, during past ten years, synthesis and structure, 421
$GaCl_3$ intercalated, order–disorder transition and 3D–2D crossover in stage 1; X-ray study, 75
heavy alkali–THF–, ^{13}C NMR study of ternary intercalated compounds, 271

α-HNO_3 intercalated, vibrational spectrum of, by neutron inelastic spectroscopy, 339
HOPG, de-intercalation and second intercalation of K into, 127
HOPG/IrF_6, resistivity studies and phase transitions in, 351
ICl-intercalated, X-ray absorption spectroscopy of, 139
ion implantation in, as precursor for intercalation, 401
K intercalate, C_8K, efficient agent for ring closure reactions, 487
kinetic study of electrochemical intercalation of K solvated by tetrahydrofuran into, 13
Li intercalated; experimental and theoretical investigations of electronic density *versus* stage by Compton scattering, 175
metal halide intercalated, stabilities of, 449
nitric acid intercalated in, critical behavior of diffusion constant in melting of layer of, 49
OsF_6 and MoF_6, intercalates, incommensurate structures of, studied by neutron scattering, 113
phonon frequencies and C–C bond distances in, and GICs, 327
photochemical intercalation in, 407
positron annihilation in, and GICs, 217
$SbCl_5$ and $AlCl_3$, kinetics of ordering in, studied by ESR, 43
$SbCl_5$ intercalated, *c*-axis resistance of stage 2, under pressure, 345
sulfur trioxide system, new data concerning, 387
theory of NMR in, and GICs, 265

Graphite electrodes
in potentiometric titrations, use of, 503

Graphite fiber
HNO_3 intercalated, structure of, prepared from cyanoacetylene, 475

Graphite intercalation chemistry
reflections on matter transfer in, 27

Graphite intercalation compounds
acceptor type, new method to determine dielectric constants of, 333
alkali
C_8M, interlayer bands in first stage, 171
UPS and XPS studies of, 191
alkali–ammonia ternary, two dimensional metal–insulator transitions in, 223
alkali metal
angle resolved photoemission study of first and second stages, 165
dynamics of stage boundaries in, observed by color photography, 61
fractal energy surface and successive lock-in transitions of intercalant monolayer system in alkali metal, 69
application of β-NMR to study of, 257
c-axis conduction in, 359
Co, enhancement of ferromagnetism in new reduced, 243
$CoCl_2$
high field magnetization of, 231
high field memory effect in; neutron investigation, 249
CsC_8, direct evidence for occupied Cs 6s states in, 211
of dichlorides of II_B elements (Zn, Cd, Hg), structural investigations of, 95
*hk*0 diffraction patterns of, some general aspects of, 81
F–HOPG, 461
finely divided supported metals Ni, Co and Fe prepared through; study by XPS, 493
K
defects in, studied by positron annihilation; preparation dependence, 285
stage dependence of electronic states in, by XANEPS measurements, 205
KC_8, investigations of anisotropy of electronic density in, by synchrotron X-ray Compton scattering, 179
K and metal halide, electronic structure of, studied by angle-resolved X-ray emission spectroscopy, 183
Li, neutron scattering studies of dilute stage 1; elastic interactions, phase transitions and phase diagram, 121
nitric acid and $SbCl_5$, ^{13}C NMR study of relation between bonding and commensurability in, 277
list of patents featuring, issued between 1977 and 1986, 511
phonon frequencies and C–C bond distances in graphite and, 327

positron annihilation in graphite and, 217
in preparative chemistry, use of, bibliography 1977–1985, 519
pulsed ESR studies of, 291
$SbCl_5$
de Haas–van Alphen effect in, 199
spin resonance and *c*-axis resistivity in, 305
theory of NMR in graphite and, 265
with transition metal fluorides, 435
their uses in industry and chemistry, 467
Graphite salts
with perfluoroalkanesulfonic acids and alkanesulfonic acids, 395

HOPG
F GICs, 461
/IrF_6, resistivity studies and phase transitions in, 351

Incommensurate structures
of OsF_6 and MoF_6 graphite intercalates studied by neutron scattering, 113
Industry
GICs; their uses in, and chemistry, 467
Infrared methods
for study of intercalant vibrations, modified Raman and, 321
In-plane orderings
in new graphite–alkali metal–Bi ternaries, X-ray study of, 89
Intercalant melting
kinetic processes of stage transitions and critical behaviors of, 7
Intercalant monolayer system
fractal energy surface and successive lock-in transitions of, in alkali metal GICs, 69
Intercalant vibrations
modified Raman and infrared methods for study of, 321
Intercalation
of KC_{24} with THF or benzene, enthalpy of, and thermal analysis of $K(THF)_{2.5}C_{24}$ and $K(Bz)_{2.5}C_{24}$, 427
ion implantation in graphite as precursor for, 401
and partial deintercalation of tetrahydrofuran in CsC_{24}; neutron powder diffraction study, 133
photochemical, in graphite, 407

Intercalation chemistry
graphite, reflections on matter transfer in, 27
Interlayer bands
in first stage alkali GICs, C_8M, 171
Iodine
ICl-intercalated graphite, X-ray absorption spectroscopy of, 139
Ion implantation
in graphite as precursor for intercalation, 401
Iridium
HOPG/IrF_6, resistivity studies and phase transitions in, 351
Iron
finely divided supported metals Ni, Co and Fe prepared through GICs; study by XPS, 493

Kinetic processes
of stage transitions and critical behaviors of intercalant melting, 7
Kinetic study
of electrochemical intercalation of K solvated by tetrahydrofuran into graphite, 13
Kinetics
of ordering in graphite $SbCl_5$ and $AlCl_3$ studied by ESR, 43
of staging and stage disorder, 1

Lithium
GICs, neutron scattering studies of dilute stage 1; elastic interactions, phase transition and phase diagram, 121
Li intercalated graphite; experimental and theoretical investigations of electronic density *versus* stage by Compton scattering, 175
mobility of tetrahydrofuran in $Cs(THF)_xC_{24}$ and $Li(THF)_{1.4}C_6$; neutron and NMR study, 55
Lock-in transitions
fractal energy surface and successive, of intercalant monolayer system in alkali metal GICs, 69

Magnetic ordering
in quasi-two-dimensional planar ferromagnet, 237
Magnetization
high field, of $CoCl_2$ GICs, 231

Matter transfer
in graphite intercalation chemistry, reflections on, 27
Melting
of intercalated layers in $Cs_x(THF)_y$-C_{24}, 155
Memory effect
high field, in $CoCl_2$ GIC; neutron investigation, 249
Mercury
GICs of dichlorides of II_B elements (Zn, Cd, Hg), structural investigations of, 95
Metal graphitides
's or non s' in, 311
Metal halide
GICs, electronic structure of K and, studied by angle-resolved X-ray emission spectroscopy, 183
intercalated graphite, stabilities of, 449
Metal–insulator transitions
in alkali–ammonia ternary GICs, two dimensional, 223
Mobility
of tetrahydrofuran in $Cs(THF)_xC_{24}$ and $Li(THF)_{1.4}C_6$; neutron and NMR study, 55
Molecules
in graphite, dynamics of, 37
Molybdenum
incommensurate structures of OsF_6 and MoF_6 graphite intercalates studied by neutron scattering, 113

Neutron diffraction
on bromine intercalated in graphite, 147
Neutron inelastic spectroscopy
vibrational spectrum of α-HNO_3 intercalated graphite by, 339
Neutron investigation
high field memory effect in $CoCl_2$ GIC, 249
Neutron and NMR study
mobility of THF in $Cs(THF)_xC_{24}$ and $Li(THF)_{1.4}C_6$, 55
Neutron powder diffraction study
intercalation and partial deintercalation of tetrahydrofuran in CsC_{24}, 133
Neutron scattering studies
of dilute stage 1 Li GICs; elastic interactions, phase transitions and phase diagram, 121
incommensurate structures of OsF_6 and MoF_6 graphite intercalates by, 113
Nickel
finely divided supported metals Ni, Co and Fe prepared through GICs; study by XPS, 493
Nitric acid
intercalated in graphite
critical behavior of diffusion constant of melting of layer of, 49
vibrational spectrum of α-HNO_3, by neutron inelastic spectroscopy, 339
intercalated graphite fiber prepared from cyanoacetylene, structure of, 475
NO_3H and $SbCl_5$ GIC, ^{13}C NMR study of relation between bonding and commensurability in, 277
NMR
application of, to study of GICs, β-NMR, 257
^{13}C, study
of relation between bonding and commensurability in NO_3H and $SbCl_5$ GIC, 277
of ternary intercalated compounds; heavy alkali–THF–graphite, 271
in graphite and GICs, theory of, 265
mobility of THF in $Cs(THF)_xC_{24}$ and $Li(THF)_{1.4}C_6$, neutron and, 55

Occupied Cs 6s states
in CsC_8, direct evidence for, 211
Order–disorder transition
and 3D–2D crossover in stage 1 $GaCl_3$ intercalated graphite; X-ray study, 75
Order parameter
of ammonia molecule; potential energy of $KC_{24}(NH_3)_4$ on ionic model, 297
Ordering
kinetics of, in graphite $SbCl_5$ and $AlCl_3$ studied by ESR, 43
Osmium
incommensurate structures of OsF_6 and MoF_6 graphite intercalates studied by neutron scattering, 113

Patents
featuring GICs, list of, between 1977 and 1986, 511

Perfluoroalkanesulfonic acids
graphite salts with, and alkanesulfonic acids, 395
Phase changes
and conductvitiy anisotropy of AsF_5 intercalated graphite, 365
Phase transitions
in HOPG/IrF_6, resistivity studies and, 351
neutron scattering studies of dilute stage 1 Li–GICs; elastic interactions, and phase diagram, 121
Phonon frequencies
and C–C bond distances in graphite and GICs, 327
Phonons
structure and, in stage 2 AsF_5–graphite; comparison of high-T liquid and low-T incommensurate solid phases, 101
Photochemical intercalation
in graphite, 407
Positron annihilation
defects in K GIC studied by; preparation dependence, 285
in graphite and GICs, 217
Potassium
deintercalation and second intercalation of, into highly oriented pyrolytic graphite, 127
graphite K intercalate, C_8K, efficient agent for ring closure reactions, 487
GIC
defects in, studied by positron annihilation; preparation dependence, 285
stage dependence of electronic states in, by XANEPS measurements, 205
KC_8, investigations of anisotropy of electronic density in, by synchrotron X-ray Compton scattering, 179
kinetic study of electrochemical intercalation of, solvated by tetrahydrofuran into graphite, 13
and metal halide GICs, electronic structure of, studied by angle-resolved X-ray emission spectroscopy, 183
potential energy of $KC_{24}(NH_3)_4$ on ionic model; order parameter of ammonia molecule, 297
Potential energy
of $KC_{24}(NH_3)_4$ on ionic model; order parameter of ammonia molecule, 297
Potentiometric titrations
use of graphite electrodes in, 503
Preparation dependence
defects in K GIC studied by positron annihilation, 285
Preparative chemistry
use of GICs in, bibliography 1977–1985, 519
Pressure
c-axis resistance of stage 2 $SbCl_5$ intercalated graphite under, 345

Raman and infrared methods
for study of intercalant vibrations, modified, 321
Resistivity studies
and phase transitions in HOPG/IrF_6, 351
Ring closure reactions
graphite K intercalate, C_8K, efficient agent for, 487

's' character
's or non s' in metal graphitides? 311
Spin resonance lineshape
and *c*-axis resistivity in $SbCl_5$ GICs, 305
Stabilities
of metal halide intercalated graphite, 449
Stage boundaries
in alkali-metal GICs observed by color photography, dynamics of, 61
Stage dependence
of electronic states in K GIC by XANEPS measurements, 205
Stage disorder
kinetics of staging and, 1
Stage transitions
kinetics processes of, and critical behaviors of intercalant melting, 7
Structural investigations
of GICs of dichlorides of II_B elements (Zn, Cd, Hg), 95
Structure
and phonons in stage 2 AsF_5–graphite; comparison of high-T liquid and low-T incommensurate solid phases, 101
Sulfur trioxide
graphite, system, new data concerning, 387
Synchrotron X-ray
Compton scattering, investigations of anisotropy of electronic density in KC_8 by, 179

Synthesis and structure
development of ternary graphite–electron donor compounds during past ten years, 421

Tetrahydrofuran
enthalpy of intercalation of KC_{24} with, or benzene and thermal analysis of $K(THF)_{2.5}C_{24}$ and $K(Bz)_{2.5}C_{24}$, 427
heavy alkali–THF–graphite; ^{13}C NMR study of ternary intercalated compounds, 271
intercalation and partial deintercalation of, in CsC_{24}; neutron powder diffraction study, 133
kinetic study of electrochemical intercalation of K solvated by, into graphite, 13
melting of intercalated layers in $Cs_x(THF)_yC_{24}$, 155
mobility of, in $Cs(THF)_xC_{24}$ and $Li(THF)_{1.4}C_6$; neutron and NMR study, 55
Thermal analysis
of $K(THF)_{2.5}C_{24}$ and $K(Bz)_{2.5}C_{24}$, 427
Transition metal
fluorides, GICs with, 435

UPS and XPS studies
of alkali graphite GICs, 191

Vibrational spectrum
of α-HNO_3 intercalated graphite by neutron inelastic spectroscopy, 339

XANEPS measurements
stage dependence of electronic states in K GIC by, 205
XPS studies
of alkali graphite GICs, UPS and, 191
finely divided supported metals Ni, Co and Fe prepared through GICs, 493
X-ray absorption spectroscopy
of ICl-intercalated graphite, 139
X-ray emission spectroscopy
angle-resolved, electronic structure of K and metal halide GICs studied by, 183
X-ray study
of in-plane orderings in new graphite–alkali metal–Bi ternaries, 89
order–disorder transition and 3D–2D crossover in stage 1 $GaCl_3$ intercalated graphite, 75

Zinc
GICs of dichlorides of II_B elements (Zn, Cd, Hg), structural investigations of, 95